

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 58-197461

(43)Date of publication of application : 17.11.1983

(51)Int.Cl.

F02M 25/06

(21)Application number : 57-081053

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(22)Date of filing : 14.05.1982

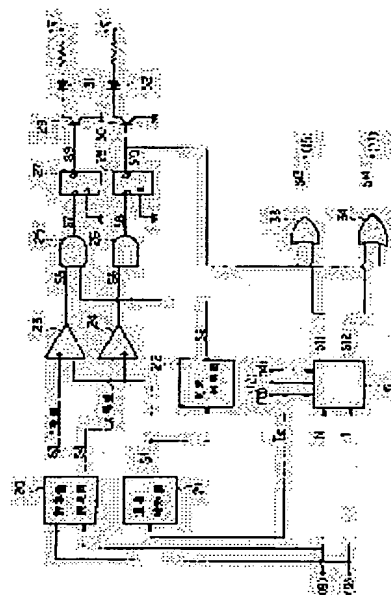
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(54) DISCRIMINATING DEVICE FOR TROUBLE ON SENSOR IN EXHAUST GAS RETURNING DEVICE

(57)Abstract:

PURPOSE: To easily discriminate a trouble on a sensor under an operating condition, by comparing temperature of EGR gas with an allowable value determined corresponding to an operating condition in case a feedback control is conducted on an EGR factor computed from a suction temperature, an EGR gas temperature, and temperature of mixture gas of the two gases so that the EGR factor attains a required value.

CONSTITUTION: A controller 6 computes an EGR factor based on values detected by an intake air temperature sensor 12, an EGR gas temperature sensor 13, and a sensor 14 for temperature of mixture gas of intake air and EGR gas, and a feedback control is made on the EGR factor through electromagnetic valves 15 and 17 so that the EGR factor attains a required value decided based on values detected by a sensor 8 for the number of revolutions and a load sensor 9. An allowable value deciding device 20 computes a lower limit value S3 and an upper limit value S4, being an allowable value of an EGR gas temperature, from the values detected by the sensor 8 for the number of revolutions and the load sensor 9. When a detected value S1 of the sensor 13 exceeds said allowable value, comparators 23 and 24 decide that either of the sensor 8 for the number of revolutions and the load sensor 9 is brought into a trouble, and light is generated by LED 31 and 32 to perform an alarm.



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[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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